MODIS IOT Weekly Report

Mission Operations Days: 2000/309 to 2000/315

November 3, 2000 20:00:00 GMT to November 10, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode MODIS is in B-side Science Mode

Blackbody		A Off; B On	Nominal
Calibration Electronics		A Off; B On	Nominal
Control Processor		A Off; B On	Nominal
Door: Na	dir	Unlatched, open	Nominal
Spa	ace View	Unlatched, open	Nominal
Solar Diffuser		Unlatched, closed	Nominal
FDDI Formatter		A Off; B On	Nominal
FDDI Port		A On; B Off	Nominal
FIFO Memory		1 & 2 Off; 3 & 4 On	Nominal
Format Processor		A Off; B On	Nominal
Power Supply:1		Off	Nominal
	2	On	Nominal
PV FPAs:	VIS	A Off; B On	Nominal
	NIR	A Off; B On	Nominal
	SMIR	A Off; B On	Nominal
	LWIR	A Off; B On	Nominal
PC FPA:	LWIR	A Off; B On	Nominal
Radiative Cooler:			
Outgas Heaters		All Off	Nominal
LWIR FPA Heater		· On	Nominal
SMIR FPA Heater		Off	Nominal
Scan Assembly		A Off; B On	Nominal
SDSM		Off	Nominal
SRCA		Off	Nominal
Survival H	eaters: PS	Enabled	Nominal
	PS	2 Enabled	Nominal
Timing Generator		A Off; B On	Nominal
Flight Software		Rev $BD + 2$ patches	Nominal
Inhibit Ids Set		None	Nominal

This Week's Completed MODIS Activities:

Friday, November 3, 2000

308/21:44:49-22:42:20 ATC OA-23: SRCA Full Spatial

68

Saturday, November 4, 2000

309/06:14:00-06:31:00 ATC Formatter Day Rate Science Collection

during Nadir Ground Track Night. (3+ Granules)

309/21:39:13-21:41:44 ATC OA-27: PV ECAL 309/21:44:13-21:48:44 ATC OA-28: PC ECAL

Sunday, November 5, 2000

None

Monday, November 6, 2000

None

Tuesday, November 7, 2000

None

Wednesday, November 8, 2000

None

Thursday, November 9, 2000

None

Friday, November 10, 2000

None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, November 10, 2000

None

Saturday, November 11, 2000

None

Sunday, November 12, 2000

None

Monday, November 13, 2000

None

Tuesday, November 14, 2000

None

Wednesday, November 15, 2000

Roll Maneuver:

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320/22:15:29 ATC Move Formatter to Night ahead by 3:23 to ensure 50/50 day/night
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320/22:47:43 ATC Set Formatter to Day Rate

320/22:47:45 ATC Set SCIABNORM Flag to ABNORM

320/22:47:47 ATC PC DC Restore to OFF

320/22:47:49 ATC PV DC Restore to OFF

320/22:47:51 ATC Sector Rotation to -3072 (EA to SV and OBCs)

320/22:54:21 ATC Sector Rotation to Zero (Normal)

320/22:54:23 ATC PC DC Restore to ON

320/22:54:25 ATC PV DC Restore to ON

320/22:54:27 ATC Set SCIABNORM Flag to NORM

320/22:54:29 ATC Set Formatter to Night Rate

320/23:11:41 ATC Move Formatter to Day later by 3:23 to ensure 50/50 day/night

Thursday, November 16, 2000

None

Friday, November 17, 2000

Leonid Meteor shower Nov 17th & 18th: MODIS will remain in nominal B-side science operations, however, all calibration activities will be suspended during this time.

Maneuvers:

Wednesday, November 15, 2000

The next MODIS Roll Maneuver is schedule for DOY 320 22:41:59 to 22:58:59 for a roll angle of -11.5506 degrees.

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 304.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 173.8 of 500 hours SRCA 10W Lamp #2: 136.3 of 500 hours SRCA 10W Lamp #3: 145.5 of 500 hours SRCA 10W Lamp #4: 61.5 of 500 hours SRCA 1W Lamp #1: 556.1 of 4000 hours SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1453 of 3022 Movements Nadir Aperture Door: 532 of 1316 Movements Space View Door: 437 of 1316 Movements